

nucleotides 568 to 2045 of SEQ ID NO:1, or (iii) a complementary strand of (i) or (ii); and

(d) a subsequence of (a), (b), or (c), wherein the subsequence encodes a polypeptide fragment which has phospholipase B activity.

72. The nucleic acid sequence of claim 71, which encodes a polypeptide having an amino acid sequence which has at least 80% identity with amino acids 20 to 464 of SEQ ID NO:2.

73. The nucleic acid sequence of claim 72, which encodes a polypeptide having an amino acid sequence which has at least 90% identity with amino acids 20 to 464 of SEQ ID NO:2.

74. The nucleic acid sequence of claim 73, which encodes a polypeptide having an amino acid sequence which has at least 95% identity with amino acids 20 to 464 of SEQ ID NO:2.

75. The nucleic acid sequence of claim 74, which encodes a polypeptide having an amino acid sequence which has at least 97% identity with amino acids 20 to 464 of SEQ ID NO:2.

76. The nucleic acid sequence of claim 71, which encodes a polypeptide comprising the amino acid sequence of SEQ ID NO:2.

77. The nucleic acid sequence of claim 71, which encodes a polypeptide consisting of the amino acid sequence of SEQ ID NO:2, or a fragment thereof which has phospholipase B activity.

78. The nucleic acid sequence of claim 77, which encodes a polypeptide consisting of amino acids 20 to 264 of SEQ ID NO:2.

79. The nucleic acid sequence of claim 71, which has at least 80% homology with nucleotides 568 to 2045 of SEQ ID NO:1.

80. The nucleic acid sequence of claim 79, which has at least 90% homology with nucleotides 568 to 2045 of SEQ ID NO:2.

81. The nucleic acid sequence of claim 60, which has at least 95% homology with

nucleotides 568 to 2045 of SEQ ID NO:2.

82. The nucleic acid sequence of claim 81, which has at least 97% homology with nucleotides 568 to 2045 of SEQ ID NO:2.

83. The nucleic acid sequence of claim 71, which has the nucleic acid sequence of SEQ ID NO:1.

84. The nucleic acid sequence of claim 71, which hybridizes under medium stringency conditions with (i) nucleotides 568 to 2045 of SEQ ID NO:1, (ii) the cDNA sequence contained in nucleotides 568 to 2045 of SEQ ID NO:1, or (iii) a complementary strand of (i) or (ii).

85. The nucleic acid sequence of claim 84, which hybridizes under medium-high stringency conditions with (i) nucleotides 568 to 2045 of SEQ ID NO:1, (ii) the cDNA sequence contained in nucleotides 568 to 2045 of SEQ ID NO:1, or (iii) a complementary strand of (i) or (ii).

86. The nucleic acid sequence of claim 85, which hybridizes under high stringency conditions with (i) nucleotides 568 to 2045 of SEQ ID NO:1, (ii) the cDNA sequence contained in nucleotides 568 to 2045 of SEQ ID NO:1, or (iii) a complementary strand of (i) or (ii).

87. The nucleic acid sequence of claim 71, contained in *E. coli* pPH6 as deposited with NRRL under accession number B-30142.

88. A nucleic acid sequence isolated by (a) hybridizing a DNA under medium stringency conditions with (i) nucleotides 568 to 2045 of SEQ ID NO. 1, (ii) the cDNA sequence contained in nucleotides 568 to 2045 of SEQ ID NO. 1, or (iii) a complementary strand of (i) or (ii); and (b) isolating the nucleic acid sequence.

89. The nucleic acid sequence of claim 88 isolated by (a) hybridizing a DNA under medium-high stringency conditions with (i) nucleotides 568 to 2045 of SEQ ID NO. 1, (ii) the

cDNA sequence contained in nucleotides 568 to 2045 of SEQ ID NO. 1, or (iii) a complementary strand of (i) or (ii); and (b) isolating the nucleic acid sequence.

90. The nucleic acid sequence of claim 89 isolated by (a) hybridizing a DNA under high stringency conditions with (i) nucleotides 568 to 2045 of SEQ ID NO. 1, (ii) the cDNA sequence contained in nucleotides 568 to 2045 of SEQ ID NO. 1, or (iii) a complementary strand of (i) or (ii); and (b) isolating the nucleic acid sequence.

91. A nucleic acid construct comprising the nucleic acid sequence of claim 71 operably linked to one or more control sequences which direct the production of the polypeptide in a suitable expression host.

92. A recombinant expression vector comprising the nucleic acid construct of claim 91.

93. A recombinant host cell comprising the nucleic acid construct of claim 91.

94. A method for producing a polypeptide having phospholipase B activity comprising (a) cultivating a strain comprising the nucleic acid sequence of claim 71 under conditions suitable for producing the polypeptide; and (b) recovering the polypeptide.

95. A method for producing a polypeptide having phospholipase B activity comprising (a) cultivating the host cell of claim 93 under conditions suitable for production of the polypeptide; and (b) recovering the polypeptide.

96. A nucleic acid construct comprising a gene encoding a protein operably linked to a nucleic acid sequence encoding a signal peptide consisting of nucleotides 510 to 567 of SEQ ID NO. 1, wherein the gene is foreign to the nucleic acid sequence.

97. A recombinant expression vector comprising the nucleic acid construct of claim 96.

98. A recombinant host cell comprising the nucleic acid construct of claim 96.

99. A method for producing a protein comprising (a) cultivating the recombinant host cell